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East 7/31/04

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9	34	( Hashida.in. or Arakawa.in.) and brak\$ with (generator or booster)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:50
10	831	brak\$ with (generator or booster) with (fail\$ or malfunction or defect\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/31 14:50
-	2	(("4489555") or ("6652040")).PN.	USPAT; US-PGPUB	2004/07/31 14:22
-	2	(("6454061") or ("6612410")).PN.	USPAT; US-PGPUB	2004/07/30 13:31
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-	3	6454061.URPN.	USPAT	2004/07/30 13:32
-	0	("deadj210244858").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/30 13:38
-	0	de adj2 "10244858"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/30 13:38
-	8	klitsch.in. and brehm.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/30 13:39
-	1	2004-271967.NRAN.	DERWENT	2004/07/30 13:40

PLUS

7/31/04

Butler, Douglas

From: PLUS  
Sent: Friday, July 30, 2004 12:52 PM  
To: Butler, Douglas  
Subject: PLUS Results for 10687604

Here are the PLUS search results for 10687604.

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10687604\_QUAL.txt



10687604\_LIST.txt



10687604\_WEST.txt



10687604\_EAST.txt



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10687604\_CLS.txt



10687604\_CLSTITLES.1



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PLUS Search Results for S/N 10687604, Searched July 30, 2004

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10687604\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10687604 on July 30, 2004

Original Classifications

16 303/114.1  
13 60/547.1  
8 303/113.2  
8 303/113.3  
7 303/114.3  
7 303/116.1  
6 303/122.13  
5 303/113.4  
5 303/115.4  
3 60/553  
3 303/11  
3 303/116.2  
2 60/554  
2 60/578  
2 303/10  
2 303/122.1  
2 303/122.11  
2 303/152  
2 303/2  
2 303/50  
2 303/52

Cross-Reference Classifications

18 303/114.1  
15 60/547.1  
15 303/116.1  
13 188/358  
13 303/113.4  
12 303/10  
12 303/119.1  
10 60/562  
10 303/115.4  
9 188/345  
8 303/116.2  
8 303/119.2  
8 303/DIG 4  
7 60/563  
7 303/113.5  
6 60/545  
6 60/581  
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6 303/122.13  
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## Combined Classifications

34 303/114.1  
28 60/547.1  
22 303/116.1  
18 303/113.4  
15 303/115.4  
14 188/358  
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2 303/9.71



## 10687604\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned  
From A Search of 10687604 on July 30, 2004

- 34 303/114.1 (16 OR, 18 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/121     SPEED-CONTROLLED  
     303/113.1   .Having a valve system responsive to a wheel  
                   lock signal  
     303/114.1   ..Including hydraulic power booster
- 28 60/547.1 (13 OR, 15 XR)  
     Class 060 : POWER PLANTS  
     60/325     PRESSURE FLUID SOURCE AND MOTOR  
     60/533     .Pulsator  
     60/547.1   ..With control of or by a separate power fluid,  
                   etc.
- 22 303/116.1 (7 OR, 15 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/121     SPEED-CONTROLLED  
     303/113.1   .Having a valve system responsive to a wheel  
                   lock signal  
     303/116.1   ..Including pump with system solenoid valve
- 18 303/113.4 (5 OR, 13 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/121     SPEED-CONTROLLED  
     303/113.1   .Having a valve system responsive to a wheel  
                   lock signal  
     303/113.4   ..Including a stroke sensor
- 15 303/115.4 (5 OR, 10 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/121     SPEED-CONTROLLED  
     303/113.1   .Having a valve system responsive to a wheel  
                   lock signal  
     303/115.1   ..System controlled by expansible chamber type  
                   modulator  
     303/115.4   ...Having pump pressure control
- 14 188/358 (1 OR, 13 XR)  
     Class 188 : BRAKES  
     188/381     FRICTIONAL VIBRATION DAMPER  
     188/151R    .Fluid pressure  
     188/152     ..Road vehicle  
     188/355     ...With nonmanual fluid-power source  
     188/358     ....Liquid power
- 14 303/10 (2 OR, 12 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/10     WITH PUMP
- 14 303/113.2 (8 OR, 6 XR)  
     Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
     303/121     SPEED-CONTROLLED  
     303/113.1   .Having a valve system responsive to a wheel  
                   lock signal  
     303/113.2   ..With traction control

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- 13 303/119.1 (1 OR, 12 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/119.1 ..System controlled by solenoid valve
  
- 12 303/122.13 (6 OR, 6 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/122 .With failure responsive means
  - 303/122.09 ..Pressure failure
  - 303/122.13 ...Auxiliary pressure failure
  
- 11 60/562 (1 OR, 10 XR)
  - Class 060 : POWER PLANTS
  - 60/325 PRESSURE FLUID SOURCE AND MOTOR
  - 60/533 .Pulsator
  - 60/562 ..Master piston of one pulsator circuit drives master piston of a parallel circuit through a resilient, fluid or lost motion connection
  
- 11 303/114.3 (7 OR, 4 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/114.3 ..Including pneumatic power booster
  
- 11 303/116.2 (3 OR, 8 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/116.1 ..Including pump with system solenoid valve
  - 303/116.2 ...Having pressure line isolated from master cylinder line
  
- 10 303/113.3 (8 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/113.2 ..With traction control
  - 303/113.3 ...Including booster
  
- 9 188/345 (0 OR, 9 XR)
  - Class 188 : BRAKES
  - 188/381 FRICTIONAL VIBRATION DAMPER
  - 188/151R .Fluid pressure
  - 188/152 ..Road vehicle
  - 188/345 ...With multiple master cylinders
  
- 9 303/119.2 (1 OR, 8 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal

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303/119.1 ..System controlled by solenoid valve  
303/119.2 ...System solenoid valve detail

8 303/113.5 (1 OR, 7 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/121 SPEED-CONTROLLED  
303/113.1 .Having a valve system responsive to a wheel  
lock signal  
303/113.5 ..With system apportioning control

8 303/DIG 4 (0 OR, 8 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON  
303/DIG 3 .Electrical pressure sensor  
303/DIG 4 ..Pressure signal used in electrical speed  
controlled braking circuit

7 60/545 (1 OR, 6 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/545 ..Having electricity or magnetically operated  
structure

7 60/563 (0 OR, 7 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/563 ..Expansible chamber of output pressurized  
directly by motive fluid and indirectly by a master drive  
n by the motive fluid

7 60/581 (1 OR, 6 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/581 ..Plural structurally related master pistons,  
cylinders or pulsator circuits

6 60/582 (1 OR, 5 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/582 ..Having safety standby structure becoming  
operative upon apparatus malfunction

6 60/589 (1 OR, 5 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/585 ..Holder for reserve liquid feeds master  
60/589 ...Master piston or its actuator mechanically  
operates valve between holder and master cylinder

6 91/376R (1 OR, 5 XR)  
Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE  
FLUID CONTROL

## 10687604\_CLSTITLES

- 91/368 .Follower type  
 91/374 ..Plural movable valve parts  
 91/376R ...One movable part unitary with working member
- 6 303/3 (1 OR, 5 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/2 MULTIPLE SYSTEMS  
 303/3 .Fluid pressure and electric
- 6 303/50 (2 OR, 4 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/50 MOTORMAN'S VALVES
- 5 60/591 (0 OR, 5 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/591 ..Having valve, director, or restrictor in  
 pulse fluid flow path
- 5 91/369.2 (1 OR, 4 XR)  
 Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE  
 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE  
 FLUID CONTROL  
 91/368 .Follower type  
 91/369.1 ..With relatively movable working and output  
 members reacting on input member  
 91/369.2 ...Rubber block reaction means
- 5 303/11 (3 OR, 2 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/10 WITH PUMP  
 303/11 .Pressure control
- 5 303/52 (2 OR, 3 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/50 MOTORMAN'S VALVES  
 303/52 .Multiple motors
- 5 303/901 (0 OR, 5 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/901 ABS CHECK VALVE DETAIL
- 5 303/DIG 11 (0 OR, 5 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/DIG 11 ACCUMULATOR
- 4 60/548 (1 OR, 3 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR  
 60/533 .Pulsator  
 60/547.1 ..With control of or by a separate power fluid,  
 etc.  
 60/548 ...Flow in recirculating circuit controlled
- 4 60/553 (3 OR, 1 XR)  
 Class 060 : POWER PLANTS  
 60/325 PRESSURE FLUID SOURCE AND MOTOR

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- 60/533 .Pulsator
- 60/547.1 ..With control of or by a separate power fluid,  
etc.
- 60/552 ...Mechanical feedback to manual control  
controls power fluid to establish position of working  
member of master
- 60/553 ....With distinct piston or diaphragm exposed  
to pulsator pressure imparting feel to manual control
- 4 188/356 (0 OR, 4 XR)
  - Class 188 : BRAKES
  - 188/381 FRICTIONAL VIBRATION DAMPER
  - 188/151R .Fluid pressure
  - 188/152 ..Road vehicle
  - 188/355 ...With nonmanual fluid-power source
  - 188/356 ....Vacuum power
- 4 303/113.1 (1 OR, 3 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel  
lock signal
- 4 303/13 (1 OR, 3 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/13 MULTIPLE CONTROL
- 4 303/2 (2 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/2 MULTIPLE SYSTEMS
- 4 303/6.01 (1 OR, 3 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/5 MULTIPLE FLUID-RECEIVING DEVICES
  - 303/6.01 .Multiple motors
- 4 303/DIG 3 (0 OR, 4 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON
  - 303/DIG 3 .Electrical pressure sensor
- 3 60/555 (1 OR, 2 XR)
  - Class 060 : POWER PLANTS
  - 60/325 PRESSURE FLUID SOURCE AND MOTOR
  - 60/533 .Pulsator
  - 60/547.1 ..With control of or by a separate power fluid,  
etc.
  - 60/555 ...Master movement of master produces a  
pressure that controls the power fluid
- 3 60/593 (0 OR, 3 XR)
  - Class 060 : POWER PLANTS
  - 60/325 PRESSURE FLUID SOURCE AND MOTOR
  - 60/533 .Pulsator
  - 60/593 ..Having fluid motor driving piston of master  
unit
- 3 91/369.1 (0 OR, 3 XR)
  - Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE

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- 91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE  
FLUID CONTROL
- 91/368 .Follower type
- 91/369.1 ..With relatively movable working and output  
members reacting on input member
- 3 91/460 (0 OR, 3 XR)  
Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE
- 91/418 WITH MOTIVE FLUID VALVE
- 91/460 .Pulsator actuator for valve (280)
- 3 188/359 (0 OR, 3 XR)  
Class 188 : BRAKES
- 188/381 FRICTIONAL VIBRATION DAMPER
- 188/151R .Fluid pressure
- 188/152 ..Road vehicle
- 188/355 ...With nonmanual fluid-power source
- 188/358 ....Liquid power
- 188/359 .....And manual
- 3 303/115.2 (0 OR, 3 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/113.1 .Having a valve system responsive to a wheel  
lock signal
- 303/115.1 ..System controlled by expansible chamber type  
modulator
- 303/115.2 ...Having electric control
- 3 303/117.1 (1 OR, 2 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/113.1 .Having a valve system responsive to a wheel  
lock signal
- 303/117.1 ..Spool valve
- 3 303/122.09 (1 OR, 2 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/122 .With failure responsive means
- 303/122.09 ..Pressure failure
- 3 303/122.11 (2 OR, 1 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/122 .With failure responsive means
- 303/122.09 ..Pressure failure
- 303/122.11 ...Detected via stroke sensor
- 3 303/122.14 (1 OR, 2 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
- 303/121 SPEED-CONTROLLED
- 303/122 .With failure responsive means
- 303/122.09 ..Pressure failure
- 303/122.13 ...Auxiliary pressure failure
- 303/122.14 ....With warning
- 3 303/152 (2 OR, 1 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

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303/121 SPEED-CONTROLLED  
303/152 .Regenerative brakes

3 303/186 (1 OR, 2 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/121 SPEED-CONTROLLED  
303/186 .Front-rear axle apportioning or speed difference

3 303/9.62 (1 OR, 2 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/5 MULTIPLE FLUID-RECEIVING DEVICES  
303/6.01 .Multiple motors  
303/9.62 ..Apportioning control

3 303/900 (0 OR, 3 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/900 ABS THROTTLE CONTROL

3 303/DIG 2 (0 OR, 3 XR)  
Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
303/DIG 2 BRAKE CONTROL BY PRESSURE COMPARISON

2 60/550 (0 OR, 2 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/547.1 ..With control of or by a separate power fluid, etc.  
60/550 ...Master driven by manual power control lever on power failure and having means adjusting lever throw o  
r master resistance responsive to failure of power fluid supply

2 60/554 (2 OR, 0 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/547.1 ..With control of or by a separate power fluid, etc.  
60/552 ...Mechanical feedback to manual control controls power fluid to establish position of working member of master  
60/554 ....Having load deformable means between master working member and motor thrust means adjusting bias of manual control

2 60/560 (0 OR, 2 XR)  
Class 060 : POWER PLANTS  
60/325 PRESSURE FLUID SOURCE AND MOTOR  
60/533 .Pulsator  
60/547.1 ..With control of or by a separate power fluid, etc.  
60/560 ...Power fluid also fed into a separate expansible chamber directly driving output means

2 60/565 (0 OR, 2 XR)  
Class 060 : POWER PLANTS

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	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/565	..Master and diverse non-pulsator drive of output member or members
2	60/566	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/565	..Master and diverse non-pulsator drive of output member or members
	60/566	...Manual master and alternate nonmanual pressure fluid source feed output motor
2	60/574	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/574	..Automatic control of plural stage pressure generation or utilization
2	60/578	(2 OR, 0 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/574	..Automatic control of plural stage pressure generation or utilization
	60/578	...Unitarily movable displacer delivers fluid from two delivery chambers, one chamber being ineffective under high pressure delivery
2	60/585	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/585	..Holder for reserve liquid feeds master
2	60/588	(0 OR, 2 XR)
	Class	060 : POWER PLANTS
	60/325	PRESSURE FLUID SOURCE AND MOTOR
	60/533	.Pulsator
	60/585	..Holder for reserve liquid feeds master
	60/588	...Master piston traps liquid on advance across a feed port in cylinder wall
2	91/378	(0 OR, 2 XR)
	Class	091 : MOTORS: EXPANSIBLE CHAMBER TYPE
	91/358R	WORKING MEMBER POSITION FEEDBACK TO MOTIVE FLUID CONTROL
	91/368	.Follower type
	91/374	..Plural movable valve parts
	91/376R	...One movable part unitary with working member
	91/378	....Axially movable spool-type valve
2	91/391R	(0 OR, 2 XR)
	Class	091 : MOTORS: EXPANSIBLE CHAMBER TYPE
	91/391R	WITH ALTERNATIVE MANUAL ACTUATION OF LOAD



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2 92/13 (0 OR, 2 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/12.1 DISPLACEMENT CONTROL OF PLURAL CYLINDERS  
 ITH ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP W  
 ROTARY TRANSMISSION AXIS  
 92/12.2 .Parallel cylinders  
 92/13 ..WITH ADJUSTABLE MEANS TO VARY STROKE OF  
 WORKING MEMBER

2 92/13.41 (0 OR, 2 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/12.1 DISPLACEMENT CONTROL OF PLURAL CYLINDERS  
 ITH ARRANGED IN PARALLEL, RADIAL, OR CONICAL RELATIONSHIP W  
 ROTARY TRANSMISSION AXIS  
 92/13.4 .Predetermined discrete incremental adjustment  
 positions  
 92/13.41 ..Adjustment by assembly or disassembly

2 92/98D (0 OR, 2 XR)  
 Class 092 : EXPANSIBLE CHAMBER DEVICES  
 92/89 COLLAPSIBLE CHAMBER WALL PORTION (E.G., HINGED  
 OR FLEXIBLE WALL)  
 92/90 .Wall portion formed of flexible material  
 92/96 ..Diaphragm type  
 92/98R ...Entire periphery secured to rigid working  
 chamber forming wall  
 92/98D ....Rolling diaphragm

2 188/156 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/381 FRICTIONAL VIBRATION DAMPER  
 188/156 .Electric and mechanical

2 188/DIG 2 (0 OR, 2 XR)  
 Class 188 : BRAKES  
 188/DIG 2 HILL HOLDER

2 303/112 (0 OR, 2 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/121 SPEED-CONTROLLED  
 303/112 .Torque sensing

2 303/114.2 (0 OR, 2 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/121 SPEED-CONTROLLED  
 303/113.1 .Having a valve system responsive to a wheel  
 lock signal  
 303/114.1 ..Including hydraulic power booster  
 303/114.2 ...Parallel boosters

2 303/115.1 (1 OR, 1 XR)  
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
 303/121 SPEED-CONTROLLED  
 303/113.1 .Having a valve system responsive to a wheel  
 lock signal  
 303/115.1 ..System controlled by expansible chamber type  
 modulator

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- 2 303/116.4 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/113.1 .Having a valve system responsive to a wheel lock signal
  - 303/116.4 ..System pump structure detail
- 2 303/122.01 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/122 .With failure responsive means
  - 303/122.01 ..Traction failure
- 2 303/122.08 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/122 .With failure responsive means
  - 303/122.08 ..Active circuit testing
- 2 303/122.1 (2 OR, 0 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/122 .With failure responsive means
  - 303/122.09 ..Pressure failure
  - 303/122.1 ...With warning
- 2 303/139 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/139 .And traction control
- 2 303/15 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/13 MULTIPLE CONTROL
  - 303/15 .Fluid and electric
- 2 303/155 (1 OR, 1 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/155 .Braking pressure demand or braking force desire
- 2 303/166 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/166 .Wheel speed sensor and braking pressure sensor
- 2 303/191 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
  - 303/121 SPEED-CONTROLLED
  - 303/191 .Odd condition or device detection (e.g., fluid or brake temperature, hill holder, anti-squeal controller acoustic emission)
- 2 303/61 (0 OR, 2 XR)
  - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

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- 303/50           MOTORMAN'S VALVES  
303/61           .Intermittent
- 2 303/84.2       (1 OR, 1 XR)  
    Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
    303/84.1     FLOW RETARDER  
    303/84.2     .Isolation valve
- 2 303/87         (0 OR, 2 XR)  
    Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
    303/87       PULSATION NEUTRALIZERS
- 2 303/9.61       (0 OR, 2 XR)  
    Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
    303/5         MULTIPLE FLUID-RECEIVING DEVICES  
    303/6.01      .Multiple motors  
    303/9.61      ..Separate and simultaneous control
- 2 303/9.71       (1 OR, 1 XR)  
    Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS  
    303/5         MULTIPLE FLUID-RECEIVING DEVICES  
    303/6.01      .Multiple motors  
    303/9.62      ..Apportioning control  
    303/9.71      ...Having significant pressure control by front  
                  brake